CSC 225: Introduction to Computer Organization

Instructor: Christopher Siu, cesiu@calpoly.edu

Lectures:  
Section 07: TR, 8:10am–9:30am, Engineering West (021–235)  
Section 09: TR, 12:10pm–1:30pm, Computer Science (014–252)

Labs:  
Section 08: TR, 9:40am–11:00am, Computer Science (014–303)  
Section 10: TR, 1:40pm–3:00pm, Computer Science (014–303)

Office Hours:  
MWF, 9:10am–1:00pm, Computer Science (014–236)  
TR, 3:10pm–5:00pm,

Course Website: All course information can be found on Canvas. This syllabus is at https://users.csc.calpoly.edu/~cesiu/csc225/syllabus.pdf

Supplementary Texts

This course covers the following topics:\(^1\):

- Introductory architecture
- Assembly programming
- Binary representation of data
- Memory management
- Machine instructions
- The runtime stack
- Instruction cycles
- Introductory C programming

The following texts may be helpful, but are not required:


Grade Breakdown

<table>
<thead>
<tr>
<th>Assignment Type</th>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments (8)</td>
<td>40%</td>
<td>A 92%</td>
</tr>
<tr>
<td>each</td>
<td>5%</td>
<td>B 82%</td>
</tr>
<tr>
<td>Midterm Exams (2)</td>
<td>30%</td>
<td>C 72%</td>
</tr>
<tr>
<td>each</td>
<td>15%</td>
<td>D 60%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
<td>F below 60%</td>
</tr>
</tbody>
</table>

Plus/minus grades will be given at 2% offsets\(^2\). Rounding will be done on a strictly case-by-case basis.

Assignments

Programming assignments will generally consist of machine code, assembly code, or high-level code implementing a specified program. Each assignment must be submitted via GitHub Classroom for automated grading\(^3\) by the end of the day it is due, and may be (re)submitted one weekday late for up to 85% credit or two weekdays late for up to 70% credit.
Important Dates

- Midterm I: R, April 21st (in lecture)
- Midterm II: R, May 19th (in lecture)
- Common Final Exam: to be determined
- No Class or Office Hours:
  - R, March 31st
  - M, May 30th

Attendance

Attendance is always expected, but it is only required on days when a quiz or exam is given or an assignment is due. Contact your fellow students if you have missed a class and wish to know what was covered; unless previously arranged, I will not reiterate missed lectures.

Classroom Etiquette

You are free to use computers, tablets, phones, or other electronic devices in the classroom, except during quizzes and exams. However, out of respect for your classmates, please silence your devices and consider sitting in the back. If I feel that you are distracting your classmates, I may ask you to put away your devices.

Disability Accommodations

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Disability Resource Center, Building 124, Room 119, at (805) 756–1395, as early as possible in the term.

COVID-19 Guidance

The university is committed to protecting the health and safety of the campus community. By participating in this course, you agree to abide by all campus safety protocols. For further details, see https://ctlt.calpoly.edu/covid-19-faculty-resources

Academic Integrity

The university does not condone academic cheating or plagiarism in any form. Students are expected to behave in accordance with the university’s expectations. Exams and programming assignments must be solitary efforts. Collaboration includes but is not limited to:

- Copying even a single line of another student’s code or of code found online
- Reading, writing, or discussing any part of another student’s code
- Transferring, publishing, or otherwise distributing your code to other students

Cheating requires, at minimum, a grade of ‘F’ given for the assignment, exam, or task to all students involved.

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1 Portions of this course adapted from material by Julie Workman and Paul Hatalsky.
2 That is, an ‘A−’ requires a grade of at least 90%; a ‘B+’, 88%; and so forth.
3 I reserve the right to review your submitted code manually and adjust your automated grade accordingly.